

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
 NEWS 2 AUG 06 CAS REGISTRY enhanced with new experimental property tags
 NEWS 3 AUG 06 FSTA enhanced with new thesaurus edition
 NEWS 4 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents
 NEWS 5 AUG 20 CA/Caplus enhanced with CAS indexing in pre-1907 records
 NEWS 6 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
 NEWS 7 AUG 27 USPATOLD now available on STN
 NEWS 8 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
 NEWS 9 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
 NEWS 10 SEP 13 FORIS renamed to SOFIS
 NEWS 11 SEP 13 INPADOCDB enhanced with monthly SDI frequency
 NEWS 12 SEP 17 CA/Caplus enhanced with printed CA page images from 1967-1998
 NEWS 13 SEP 17 Caplus coverage extended to include traditional medicine patents
 NEWS 14 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 15 OCT 02 CA/Caplus enhanced with pre-1907 records from Chemisches Zentralblatt
 NEWS 16 OCT 19 BEILSTEIN updated with new compounds
 NEWS 17 NOV 15 Derwent Indian patent publication number format enhanced
 NEWS 18 NOV 19 WPIX enhanced with XML display format
 NEWS 19 NOV 30 ICSD reloaded with enhancements
 NEWS 20 DEC 04 LINPADOCDB now available on STN
 NEWS 21 DEC 14 BEILSTEIN pricing structure to change
 NEWS 22 DEC 17 USPATOLD added to additional database clusters
 NEWS 23 DEC 17 IMSDRUGCONF removed from database clusters and STN
 NEWS 24 DEC 17 DGENE now includes more than 10 million sequences
 NEWS 25 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
 NEWS 26 DEC 17 MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
 NEWS 27 DEC 17 CA/Caplus enhanced with new custom IPC display formats
 NEWS 28 DEC 17 STN Viewer enhanced with full-text patent content from USPATOLD
 NEWS 29 JAN 02 STN pricing information for 2008 now available
 NEWS 30 JAN 16 CAS patent coverage enhanced to include exemplified prophetic substances
 NEWS 31 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
 NEWS 32 JAN 28 MARPAT searching enhanced
 NEWS 33 JAN 28 USGENE now provides USPTO sequence data within 3 days of publication
 NEWS 34 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS 35 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
 NEWS 36 FEB 08 STN Express, Version 8.3, now available

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
 AND CURRENT DISCOVER FILE IS DATED 24 JANUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN Welcome Banner and News Items
 NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:08:09 ON 19 FEB 2008

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.63	0.63

FILE 'REGISTRY' ENTERED AT 10:10:05 ON 19 FEB 2008
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 FEB 2008 HIGHEST RN 1004360-55-7
 DICTIONARY FILE UPDATES: 18 FEB 2008 HIGHEST RN 1004360-55-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdnoc/properties.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 964

L1 SCREEN CREATED

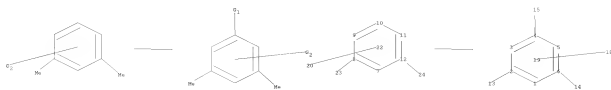
=> screen 1992 OR 2004 OR 2016 OR 2021 OR 2026 OR 1929 OR 1839

L2 SCREEN CREATED

=>

Uploading C:\Documents and Settings\rkeys\My Documents\STNEXP4\QUERIES\10532709.str

10/532,709



```
chain nodes :
13 14 15 18 20 23 24
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
2-13 4-15 6-14 8-23 12-24
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
4-15
exact bonds :
2-13 6-14 8-23 12-24
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 7 :
```

G1:Et,i-Pr,s-Bu,t-Bu

G2:H,Ak

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 18:CLASS 19:CLASS 20:CLASS
22:CLASS 23:CLASS 24:CLASS
```

```
fragments assigned product role:
containing 1
fragments assigned reactant/reagent role:
containing 7
```

L3 STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4 QUE L3 AND L1 NOT L2

```
=> file reaction
COST IN U.S. DOLLARS
FULL ESTIMATED COST
```

```
SINCE FILE          TOTAL
ENTRY              SESSION
0.46                1.09
```

10/532,709

FILE 'CASREACT' ENTERED AT 10:10:48 ON 19 FEB 2008
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FILE 'DJSMONLINE' ENTERED AT 10:10:48 ON 19 FEB 2008
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FILE 'PS' ENTERED AT 10:10:48 ON 19 FEB 2008
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=> s l4

SAMPLE SEARCH INITIATED 10:10:53 FILE 'CASREACT'
SCREENING COMPLETE - 1 REACTIONS TO VERIFY FROM 1 DOCUMENTS

100.0% DONE 1 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 1 TO 79
PROJECTED ANSWERS: 0 TO 0

SAMPLE SEARCH INITIATED 10:10:55 FILE 'CHEMINFORMRX'
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.04

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

FULL SEARCH INITIATED 10:11:00 FILE 'DJSMONLINE'
SCREENING COMPLETE - 1 REACTIONS TO VERIFY FROM 1 DOCUMENTS

100.0% DONE 1 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.04

FULL SEARCH INITIATED 10:11:05 FILE 'PS'
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

L5 0 L4

=> s l4 ful

FULL SEARCH INITIATED 10:11:12 FILE 'CASREACT'
SCREENING COMPLETE - 71 REACTIONS TO VERIFY FROM 31 DOCUMENTS

100.0% DONE 71 VERIFIED 17 HIT RXNS 8 DOCS
SEARCH TIME: 00.00.05

FULL SEARCH INITIATED 10:11:16 FILE 'CHEMINFORMRX'
SCREENING

10/532,709

SCREENING COMPLETE - 3 REACTIONS TO VERIFY FROM 3 DOCUMENTS
100.0% DONE 3 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.17

2 FILES SEARCHED...
FULL SEARCH INITIATED 10:11:34 FILE 'DJSMONLINE'
SCREENING COMPLETE - 1 REACTIONS TO VERIFY FROM 1 DOCUMENTS
100.0% DONE 1 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.03

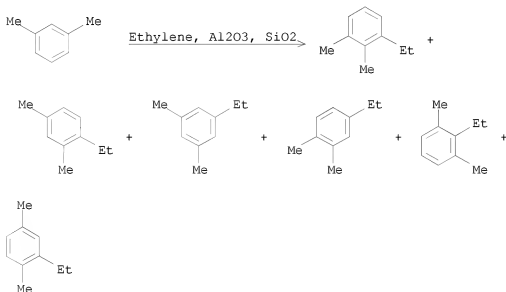
FULL SEARCH INITIATED 10:11:38 FILE 'PS'
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS
100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

L6 8 L4

=> d 1-8

L6 ANSWER 1 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

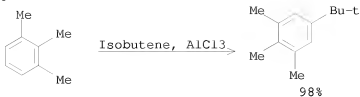
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 2007045737, 22 Feb 2007
NOTE: zeolite used
CON: 210 deg C, 2.5 MPa

L6 ANSWER 2 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

RX(2) OF 3



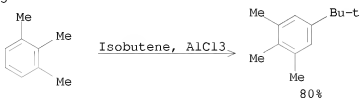
REF: Jingxi Huagong Zhongjianti, 34(6), 37-38, 61; 2004

NOTE: regioselective, optimization study, yield depends on temperature, time, catalyst dosage

CON: STAGE(1) 90 minutes, 25 deg C; 10 - 30 minutes, 25 deg C

L6 ANSWER 3 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

RX(1) OF 3

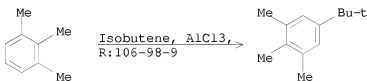


REF: Dangdai Huagong, 33(5), 273-275; 2004

CON: 90 minutes, 25 deg C

L6 ANSWER 4 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

RX(1) OF 13



REF: Faming Zhuanli Shenqing Gongkai Shuomingshu, 1488621, 14 Apr 2004

NOTE: other Lewis acid catalysts and alkylation agent gave similar results

CON: STAGE(1) -5 - 60 deg C; 1.5 - 2 hours, 5 - 25 deg C, 0.1 - 0.2 MPa

L6 ANSWER 5 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

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RX(1) OF 1



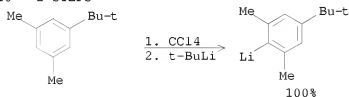
REF: U.S. Pat. Appl. Publ., 2004152934, 05 Aug 2004

NOTE: optimization study, F-24 catalyst was used, gas phase, stainless steel autoclave was used

CON: 134 deg C, 63 psi

L6 ANSWER 6 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

RX(8) OF 10 - 2 STEPS

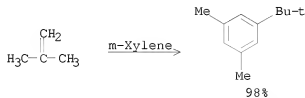


REF: Tetrahedron, 50(48), 13829-46; 1994

NOTE: 2) 2-78.deg.

L6 ANSWER 7 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

RX(1) OF 1

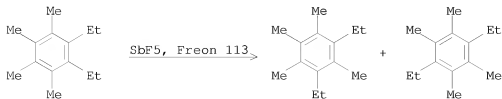


REF: Jpn. Kokai Tokkyo Koho, 03024021, 01 Feb 1991, Heisei

NOTE: activated clay as catalyst

L6 ANSWER 8 OF 8 CASREACT COPYRIGHT 2008 ACS on STN

RX(1) OF 43



REF: Journal of Organic Chemistry, 50(8), 1306-9; 1985

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=> d his

(FILE 'HOME' ENTERED AT 10:08:09 ON 19 FEB 2008)

FILE 'REGISTRY' ENTERED AT 10:10:05 ON 19 FEB 2008

L1 SCREEN 964
L2 SCREEN 1992 OR 2004 OR 2016 OR 2021 OR 2026 OR 1929 OR 18
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2

FILE 'CASREACT, CHEMINFORMRX, DJSMONLINE, PS' ENTERED AT 10:10:48 ON 19
FEB 2008

L5 0 S L4
L6 8 S L4

=> log y